SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Art Unit: 1752 Phone Mail Box and Bldg/Room Locati	Number 30 Z on: 4066	ee Ex -(333 Results)	aminer # : 7 Serial Num Format Prefer	6060 ber:	Date:	11-29-0 85, 935 DISK EMA	י וו
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Bib Data Sheet

CONFIRMATION NO. 4343

SERIAL NUMBER 10/085,935	FILING DATE 03/01/2002 RULE	CLASS 430	GROUP A		ATTORNEY DOCKET NO. KOJIM-448
APPLICANTS			<u> </u>		KOJIM-448
Toshinobu Ish Tohru Kubota Yasufui Kubot ** CONTINUING DA ** FOREIGN APPLIC JAPAN 2001-0 IF REQUIRED, FORE ** 03/22/2002	SATIONS ************************************	AN; APAN; N; S.IL.			
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TITLE					
Silicon-containing poly	mer, resist composition a	nd patterning process	s	1	^
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FILE 'REGISTRY' ENTERED AT 12:02:04 ON 01 DEC 2004 E MALEIC ANHYDRIDE/CN 1 S E3 L1E C9H24O4SI4 T.2 40 S E3 L3 35 S 3763-39-1/CRN 23350 S 108-31-6/CRN L4 L516 S L3 AND L4 1 S L5 AND 2/NC L6L7 15 S L5 NOT L6 FILE 'HCA' ENTERED AT 12:05:30 ON 01 DEC 2004 18 1 S L6 L9 8 S L7 7 S L9 NOT L8 L10

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L8 ANSWER 1 OF 1 HCA COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 137:202031 HCA

TITLE: Preparation and patterning process of

silicon-containing chemical amplification

positive resist compositions

INVENTOR(S): Takeda, Takanobu; Hatakeyama, Jun; Ishihara,

Toshinobu; Kubota, Tohru; Kubota, Yasufumi

PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

ABS COUNTY'S

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 1236745	A2	20020 904	EP 2002-251419	200202
	R: AT, BE, CH,	DE, DK		3, GR, IT, LI, LU, NL, X, CY, AL, TR	28 SE, MC,
	JP 2002348332	A2		JP 2002-47351	200202 25
	US 2002168581	A1	20021114	US 2002- <u>85935</u>	200203 01
PRIOF	RITY APPLN. INFO.:			JP 2001-56543	A 200103 01

Novel silicon-containing polymers, which are obtained by copolymg. vinylsilane with a compound having a low electron d. unsatd. bond such as maleic anhydride, maleimide derivs. or tetrafluoroethylene, are suitable as the base resin in chemical amplified pos. resist compns. used for micropatterning in a process for the fabraction of semiconductor devices. The resist compns., which are sensitive to high-energy radiation, such as deep-UV light, laser beams, electron beams or X-rays, can form high aspect ratio patterns with high sensitivity and resolution as well as improved resistance to oxygen or halogen gas plasma etching. Thus, maleic anhydride and trimethylvinylsilane were polymerized in THF using radical

polymerization

technique; the silicone polymer, photoacid generator, dissoln. inhibitor were thoroughly dissolved in propylene glycol monomethyl ether acetate; the resist solution was spin coated onto cured DUV-30/novolac resist substrate and then baked at 100° for 90 s to form a resist film of 0.2 μm , followed by exposing to laser beam, baking at 100° for 90 s, and developing in TMAH to obtain a pos. pattern; the resist pattern was then evaluated in sensitivity, resolution, and etc.

IT 452912-31-1P, Maleic anhydride-vinylheptamethylcyclotetrasil oxane copolymer

(crued and uncured; silicon-containing chemical amplification postresist compns. and patterning process thereof)

RN 452912-31-1 HCA

CN 2,5-Furandione, polymer with ethenylheptamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 108-31-6 CMF C4 H2 O3

IT **452912-31-1P**, Maleic anhydride-vinylheptamethylcyclotetrasil oxane copolymer

(crued and uncured; silicon-containing chemical amplification pos. resist compns. and patterning process thereof)

=> d 110 1-7 cbib abs hitstr hitrn

L10 ANSWER 1 OF 7 HCA COPYRIGHT 2004 ACS on STN

141:372757 Silicon-containing polymer compound, resist material, and patterning method. Hatakeyama, Jun; Takeda, Takanobu; Ishihara, Toshinobu (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004892781 A2 20041021, 52 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-150236 20030528. PRIORITY: JP 2002-192866 20020702; JP 2003-27804 20030205.

GΙ

$$\begin{array}{c|c}
R^{11} & R^{12} \\
\hline
 & C - C \\
\hline
 & 0 \\
X
\end{array}$$

Disclosed is the silicon-containing polymer compound having repeating units represented by [R1C(SiR4R5R6)-CR2R3]a, I, and [H2C-C(CH2COOR8)(COOR7)]c (R1-3 = H, C1-10 alkyl; R4-6 = C1-20 alkyl, haloalkyl, etc.; R7,8 = H, C1-10 alkyl, acid-unstable group; and a, b, c = integer). Also disclosed is the process involving plasma etching using a halogen gas such as Br2 and C12 after the formation of a pattern.

IT 779336-35-5P 779336-37-7P 779336-39-9P

(silicon-containing polymer compound for resist material)

RN 779336-35-5 HCA

CN Butanedioic acid, methylene-, 1-(1-ethylcyclopentyl) 4-methyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 648895-32-3 CMF C13 H20 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

RN 779336-37-7 HCA

CN Butanedioic acid, methylene-, bis(1-ethylcyclopentyl) ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 779336-36-6 CMF C19 H30 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

RN 779336-39-9 HCA

CN Butanedioic acid, methylene-, 1-(2-ethyltricyclo[3.3.1.13,7]dec-2-yl) 4-methyl ester, polymer with ethenylheptamethylcyclotetrasiloxan e and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 779336-38-8 CMF C18 H26 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

IT 779336-35-5P 779336-37-7P 779336-39-9P

(silicon-containing polymer compound for resist material)

L10 ANSWER 2 OF 7 HCA COPYRIGHT 2004 ACS on STN

141:251445 Positive photoresist resin containing silicone and method for pattern formation using the same. Hatakeyama, Jun; Kaneo, Takeshi; Watanabe, Takeshi; Takedá, Takanobu; Watanabe, Osamu (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004252405 A2 20040909, 58 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-194035 20030709. PRIORITY: JP 2002-372897 20021224.

AB Title resin contains repeating unit [-CH2-C{-CH2-COO-CH2-Si(R2)(R3)}(COO-OR1)](R1 = H, C1-10 alkyl, acid-sensitive group, etc.; R2-4 = C1-10 alkyl, haloalkyl, C6-20 aryl; m = pos. number).

resin provides photoresist precursor of high sensitivity and high resistance towards oxygen plasma etching.

IT 751481-67-1P

The

(resist resin containing silicone)

RN 751481-67-1 HCA

CN Butanedioic acid, methylene-, 1-(1-ethylcyclopentyl)
4-[(trimethylsilyl)methyl] ester, polymer with
ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA

INDEX NAME)

CM 1

CRN 751481-61-5 CMF C16 H28 O4 Si

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

IT 751481-67-1P

(resist resin containing silicone)

L10 ANSWER 3 OF 7 HCA COPYRIGHT 2004 ACS on STA

141:148085 Materials for forming antireflective undercoat layers for photoresist layers, and pattern formation method on substrates. Hatakeyama, Jun (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004205676 A2 20040722, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-372775 20021224.

$$\begin{array}{c|cccc}
R^2 & R^3 & \\
\hline
R^1 & & & \\
R^7 & R^6 & & \\
\end{array}$$

Ι

II

AB The materials comprise polymers having partially hydrogenated naphthol derivs. as repeating units. Preferably, the materials are dry etchable and the polymers are naphthol novolaks having repeating units represented by I or II [R1-8 = H, OH, (substituted) C1-6 alkyl, (substituted) C1-6 alkoxy, isocyanate, etc.; R9 = C1-6 alkylene, C6-10 arylene; m, n = 0, pos. integer; 0 < m + n \leq 0.8] as repeating units. Also claimed is a process for forming a pattern on a substrate (made of high reflective Al, Si, etc.), including steps of successively forming the undercoat layers and

photoresist layers, imagewise exposure the photoresist layers to radiation and developing to give photoresist patterns, dry etching the undercoat layer (with oxygen etchant) via the photoresist pattern mask, and then dry etching the substrate via the undercoat layer. The antireflective undercoat films with ≥ 200 nm thickness show sufficient antireflective effects for 193-nm light, and show approx. the same etching resistance to CHF3/CF4 etchants and Cl2/BCl3 etchants as those of novolak resins in patterning the substrate for such as semiconductor device fabrication.

726187-57-1

ΙT

(photoresist; materials for forming partially hydrogenated naphthol novolak antireflective undercoat layers for photoresist layers, and pattern formation method on substrates)

RN 726187-57-1 HCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 154970-45-3 CMF C12 H18 O2

CM 2

CRN 108-31-6 CMF C4 H2 O3

IT **726187-57-1**

(photoresist; materials for forming partially hydrogenated naphthol novolak antireflective undercoat layers for photoresist layers, and pattern formation method on substrates)

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L10 ANSWER 4 OF 7 HCA COPYRIGHT 2004 ACS of STN

140:329540 Polymerizable silicon-containing compound for polymer resist composition and patterning process. Kinsho, Takeshi; Watanabe, Takeru; Hasegawa, Koji (Japan). U.S. Pat. Appl. Publ. US 2004067436 Al 20040408, 22 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-671732 20030929. PRIORITY: JP 2002-285171 20020930.

AB Polymerizable silicon-containing compds. of formula:
(CH3)3SiCH2C(=CH2)C(=O)OR1 (R1 = hydrogen, halogen or monovalent organic group) are polymerized into polymers. A resist composition comprising

the polymer as a base resin is sensitive to high-energy radiation, has excellent sensitivity and resolution at a wavelength of less than 300 nm, and high resistance to oxygen plasma etching, and thus lends itself to micropatterning for the fabrication of VLSIs.

IT 677775-99-4P

(polymerizable silicon-containing compound for polymer resist composition

and patterning process)

RN 677775-99-4 HCA

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 677775-92-7 CMF C14 H26 O2 Si

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{O-C-C-CH}_2\text{--SiMe}_3 \end{array}$$

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

IT 677775-99-4P

 $(\mbox{polymerizable silicon-containing compound for polymer resist composition} \\$

and patterning process)

L10 ANSWER 5 OF 7 HCA COPYRIGHT 2004 ACS on STN

140:84642 Silicon-containing polymer, resist composition and patterning process. Takeda, Takanobu; Hatakeyama, Jun; Ishihara, Toshinobu (Japan). U.S. Pat. Appl. Publ. US 2004006191 A1 20040108, 20 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-611014 20030702. PRIORITY: JP 2002-192947 20020702.

GI
$$\begin{array}{c|c}
R^1 & R^2 \\
 \downarrow c & c \\
 \downarrow p \\
 R^3 & R^5 \\
 \downarrow R^4 - Si - (0 - Si)_{n} - 0 \\
 \downarrow R^6 & 0 \\
 \downarrow r \\
 \downarrow r$$

AB The invention relates to silicon-containing polymers comprising recurring units of three components represented by the general formula I (R1-3 = H, 1-10 alkyl; C4-6 = H, C 1-20 alkyl or haloalkyl, etc.; R7 = C 4-20 alkyl; n = 1-5; p. q,r = pos. number) are novel. Resist compns. comprising the polymers are sensitive to high-energy radiation and have a high sensitivity and resolution at a wavelength of less than 300 nm and improved resistance to oxygen plasma etching. 1.

IT 640728-38-7P 640728-39-8P 640728-40-1P

(silicon-containing polymer, resist composition and patterning process)

RN 640728-38-7 HCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 279243-69-5 CMF C15 H22 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

RN 640728-39-8 HCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2-ethylbicyclo[2.2.1]hept-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 330596-01-5 CMF C17 H24 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

RN 640728-40-1 HCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2-ethyltricyclo[3.3.1.13,7]dec-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 328087-87-2 CMF C20 H28 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

0 0

IT 640728-38-7P 640728-39-8P 640728-40-1P

(silicon-containing polymer, resist composition and patterning process)

- L10 ANSWER 6 OF 7 HCA COPYRIGHT 2004 ACS on STN
- 140:50319 Photoacid generating compounds, chemically amplified positive resist materials, and pattern forming method. Hatakeyama, Jun; Kobayashi, Tomohiro; Ohsawa, Youichi (Japan). U.S. Pat. Appl. Publ. US 2003235779 A1 20031225, 47 pp., Cont.-in-part of U.S. Pat. Appl. 2003 207,201. (English). CODEN: USXXCO. APPLICATION: US 2003-375773 20030227. PRIORITY: JP 2001-397192 20011227; US 2002-331785 20021227.
- AB The invention provides a high-resolution resist material comprising an acid generator that has high sensitivity and high resolution with respect to high-energy rays of 300 nm or less, has small line-edge roughness, and is superior in heat stability and in shelf stability, and provides a pattern forming method that uses this resist material. The invention further provides a chemical amplified pos. resist material comprising a base resin, an acid generator and a solvent in which the acid generator generates an alkylimidic acid containing a fluorine group, and provides a pattern forming method comprising a step of applying the resist material to the substrate, a step of performing exposure to a high-energy ray of a wavelength of 300 nm or less through a photomask following heat treatment, and a step of performing development by a developing solution following heat treatment.

IT 635715-36-5 635715-38-7

(resin; chemical amplified pos. resist materials containing)

RN 635715-36-5 HCA

CN 2-Propenoic acid, 2-ethylbicyclo[2.2.1]hept-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 449173-03-9 CMF C12 H18 O2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

RN 635715-38-7 HCA

CN 2-Propenoic acid, 1-methyl-2-(trimethylsilyl)ethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 635715-37-6

CMF C9 H18 O2 Si

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{O-C-CH} = \text{CH}_2 \\ \parallel \\ \text{Me-CH-CH}_2 - \text{SiMe}_3 \end{array}$$

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

IT 635715-36-5 635715-38-7

(resin; chemical amplified pos. resist materials containing)

L10 ANSWER 7 OF 7 HCA COPYRIGHT 2004 ACS on STN
139:267981 Photosensitive acid-generating agent, chemically amplified positively-working photoresist material, and patterning method. Hatakeyama, Jun; Kobayashi, Tomohiro; Osawa, Yoichi (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003261529 A2 20032919, 49 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 2002-369145 20021220. PRIORITY: JP 2001-397192 20011227.

GΙ

The acid-generating agent is a sulfonium salt represented as I [R1 = AΒ C2-8 alkylene; R2 = direct bond, O, N, C1-4 alkylene; R3 = (substituted) linear, branched, or cyclic alkyl, aryl; Rfl and/or Rf2 = F-containing C1-20 linear, branched, or cyclic alkyl which may involve OH, carbonyl, ester, ether or aryl; Rf1 and Rf2 may form The chemical amplified pos. working photoresist contains, a base resin, a solvent, and an agent releasing an alkylimidic acid, preferably I or R4nM+ Rf1SO2NSO2Rf2- [R4 = linear, branched, or cyclic alkyl (involving carbonyl, ester, ether, thioether, or double bond), aryl, aralkyl; M = iodonium, sulfonium; n = 2, 3]. photoresist material is applied on a substrate, heated, exposed to high-energy radiation with wavelength ≤300 nm through a photomask, heated, and developed to form a pattern. The pattern with high resolution, small line edge roughness, and heat and storage stability is obtained by the method.

IT 601520-60-9 601520-61-0

(photosensitive fluoroalkylimidic acid-generating agent for chemical

amplified pos.-working photoresist material)

RN 601520-60-9 HCA

CN 2-Propenoic acid, 2-methyl-, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 271598-68-6 CMF C13 H20 O2 Relative stereochemistry.

$$R$$
 R
 Et
 O
 CH_2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

RN 601520-61-0 HCA

CN 2-Propenoic acid, 2-methyl-, 1-methyl-2-(trimethylsilyl)ethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 409320-43-0 CMF C10 H20 O2 Si

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{O-C-C-Me} \\ \parallel \\ \text{Me-CH-CH}_2\text{-SiMe}_3 \end{array}$$

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

IT 601520-60-9 601520-61-0

(photosensitive fluoroalkylimidic acid-generating agent for chemical

amplified pos.-working photoresist material)

Access DB# 138930

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sin Art Unit: 1752 Phone N Mail Box and Bldg/Room Location	J. Lee lumber 30 2-13: -7060 Res	Examine SE Seri	r#: al Number t Preferred	r: 10	Date: 11-29-04 1085, 935 PAPER DISK E-MAIL
If more than one search is submi	itted, please prioriti	ize searche	es in orde	r of nee	d.
*********** Please provide a detailed statement of the s Include the elected species or structures, ke utility of the invention. Define any terms t known. Please attach a copy of the cover si	search topic, and describe eywords, synonyms, acro that may have a special m heet, pertinent claims, an	e as specifical onyms, and re- neaning. Give d abstract.	ly as possibl gistry numbe e examples o	e the subjects, and cor or relevant of	ct matter to be searched. nbine with the concept or citations, authors, etc, if
Title of Invention: Inventors (please provide full names):	Please	Ale	B.6. S	heet.	
Inventors (please provide full names):					
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Clerical Prep Time:	Patent Family	WWW/Intern	net		
Online Time:	Other	Other (specif	y)		
PTO-1590 (8-01)					

$$\begin{array}{c|c}
R^{1} & R^{2} \\
\hline
\begin{pmatrix}
C & C \\
C & C
\end{pmatrix}
\\
R^{3} & R^{8} & R^{9} \\
R^{10} & Si & R^{7} & Si & N
\end{array}$$
(2)

wherein R¹ to R³ are as defined above, R⁷ is an oxygen atom, a straight, branched or cyclic alkylene group of 1 to 10 carbon atoms or an arylene group, R⁸ to R¹⁰ each are independently a straight, branched or cyclic alkyl or fluorinated alkyl group having 1 to 10 carbon atoms or an aryl group, and n is an integer of 2 to 10,

$$\begin{array}{c}
Rf \mid Rf^{2} \\
\downarrow \downarrow \\
C - C
\end{array}$$

$$O = X$$

$$O = X$$

wherein X is an oxygen atom, a sulfur atom or -NR-, R is hydrogen, hydroxyl, a straight, branched or cyclic alkyl group of 1 to 10 carbon atoms, or an aryl group, and may contain an acid labile group, Rf¹ and Rf² each are independently hydrogen, fluorine or trifluoromethyl.

Claim 3 (Currently Amended): The silicon containing polymer of claim 1 further comprising recurring units of the general formula (4): A silicon-containing polymer comprising recurring units of at least one of the following general formulae (1), (2) and (4):



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	FILING DATE						
SERIAL NUMBER 10/085,935	03/01/2002 RULE	CLASS 430	GROUP A		ATTORNEY DOCKET NO.		
APPLICANTS					KOJIM-448		
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Silicon-containing polyr	mer, resist composition a	nd patterning proces	\$				
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FILE 'REGISTRY' ENTERED AT 12:02:04 ON 01 DEC 2004
               E MALEIC ANHYDRIDE/CN
L1
             1 S E3
               E C9H24O4SI4
            40 S E3
L2
L3
            35 S 3763-39-1/CRN
L4
         23350 S 108-31-6/CRN
L5
            16 S L3 AND L4
             1 S L5 AND 2/NC
L6
L7
            15 S L5 NOT L6
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             8 S L7
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             7 S L9 NOT L8
    FILE 'LREGISTRY' ENTERED AT 12:12:03 ON 01 DEC 2004
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               STR L11
            20 S L14 AND L12
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L16
               STR L14
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REP G1=(3-12) A

NODE ATTRIBUTES:

NSPEC IS RC AT 7
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NSPEC IS RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L16 STR

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\end{array}$$

REP G1=(3-12) A
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L18 69 SEA FILE=REGISTRY SSS FUL (L14 NOT L16) AND L12

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=> file zca FILE 'ZCA' ENTERED AT 12:27:41 ON 01 DEC 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 119 1-59 cbib hitstr

L19 ANSWER 1 OF 59 ZCA COPYRIGHT 2004 ACS on STA

141:372757 Silicon-containing polymer compound, resist material, and patterning method. Hatakeyama, Jun; Takeda, Takanobu; Ishihara, Toshinobu (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004292781 A2 20041021, 52 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-150236 20030528. PRIORITY: JP 2002-192866 20020702; JP 2003-27804 20030205.

IT 779336-35-5P 779336-37-7P 779336-39/9P

(silicon-containing polymer compound for resist material)

RN 779336-35-5 ZCA

CN Butanedioic acid, methylene-, 1 (1-ethylcyclopentyl) 4-methyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 648895-32-3 CMF C13 H20 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

RN 779336-37-7 ZCA

CN Butanedioic acid, methylene-, bis(1-ethylcyclopentyl) ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 779336-36-6 CMF C19 H30 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

RN 779336-39-9 ZCA

CN Butanedioic acid, methylene-, 1-(2-ethyltricyclo[3.3.1.13,7]dec-2-yl) 4-methyl ester, polymer with ethenylheptamethylcyclotetrasiloxan e and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 779336-38-8 CMF C18 H26 O4

CM 2

CRN 108-31-6 CMF C4 H2 O3

L19 ANSWER 2 OF 59 ZCA COPYRIGHT 2004 ACS on STN

141:367458 Aqueous silicone resin compositions with good surface smoothness and abrasion resistance. Iguchi, Yoshinori (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004300374 A2 20041028, 23 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-97912 20030401.

IT 778641-09-1P

(blend with polysiloxane-silsesquioxane; aqueous silicone resin compns. with good surface smoothness and abrasion resistance)

RN 778641-09-1 ZCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylheptamethylcyclotetrasiloxane, ethyl 2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 556-67-2 CMF C8 H24 O4 Si4

CM 3

CRN 140-88-5 CMF C5 H8 O2

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{EtO-C-CH------} \text{CH}_2 \end{array}$$

CM 4

CRN 80-62-6

CMF C5 H8 O2

L19 ANSWER 3 OF 59 ZCA COPYRIGHT 2004 ACS on STN

141:251445 Positive photoresist resin containing silicone and method for pattern formation using the same. Hatakeyama, Jun; Kaneo, Takeshi; Watanabe, Takeshi; Takeda, Takanobu; Watanabe, Osamu (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004252405 A2 20040909, 58 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2003-194035 20020709. PRIORITY: JP 2002-372897 20021224.

IT 751481-67-1P 751481-68-2P

(resist resin containing/silicone)

RN 751481-67-1 ZCA

CN Butanedioic acid, methylene-, 1-(1-ethylcyclopentyl)
4-[(trimethylsilyl)methyl] ester, polymer with
ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA
INDEX NAME)

CM 1

CRN 751481-61-5 CMF C16 H28 Q4 Si

CRN 108-31-6 CMF C4 H2 O3

RN 751481-68-2 ZCA

CN Butanedioic acid, methylene-, polymer with ethenylheptamethylcyclotetrasiloxane and 1-(1-ethylcyclopentyl) 4-[(trimethylsilyl)methyl] methylenebutanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 751481-61-5 CMF C16 H28 O4 Si

CM 2

CRN 3763-39-1

CM 3

CRN 97-65-4 CMF C5 H6 O4

L19 ANSWER 4 OF 59 ZCA COPYRIGHT 2004 Ags on STN

141:148085 Materials for forming antireflective undercoat layers for photoresist layers, and pattern formation method on substrates. Hatakeyama, Jun (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2004205676 A2 20040722, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-372775 20021224.

IT **726187-57-1**

(photoresist; materials for forming partially hydrogenated naphthol novolak antireflective undercoat layers for photoresist layers, and pattern formation method on substrates)

RN 726187-57-1 ZCA

CN Bicyclo[2.2.1]hept-b-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with etherylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 154970-45-3 CMF C12 H18 O2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

L19 ANSWER 5 OF 59 ZCA COPYRIGHT 2004 ACS of STN

140:329540 Polymerizable silicon containing compound for polymer resist composition and patterning process. Kinsho, Takeshi; Watanabe, Takeru; Hasegawa, Koji (Japan). U.S. Pat. Appl. Publ. US 2004067436 Al 20040408, 22 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-671732 20030929. PRIORITY: JP 2002-285171 20020930.

IT 677775-99-4P

(polymerizable silicon-containing compound for polymer resist composition

and patterning process)

RN 677775-99-4 ZCA

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 677775-92-7 CMF C14 H26 O2 Si

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ || & || \\ \text{O-C-C-CH}_2\text{--SiMe}_3 \end{array}$$
 Et

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

L19 ANSWER 6 OF 59 ZCA COPYRIGHT 2004 ACS on STN

140:305163 Bond layer for coatings on plastic substrates. Iacovangelo, Charles D. (General Electric Company, USA). U.S. Pat. Appl. Publ. US 2004071971 A1 20040415, 6 pp. (English). CODEN: USXXCO. APPLICATION: US 2002-269415 2002(10)11.

IT 25085-97-6P, Heptamethyl (yinyl) cyclotetrasiloxane

homopolymer

(plasma; bond layer for coatings on plastic substrates)

RN 25085-97-6 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1

CMF C9 H24 O4/Si4

Dore Hot wood

L19 ANSWER 7 OF 59 ZCA COPYRIGHT 2004 ACS on STN

140:136424 Silicon-containing polymer, photoresist composition and patterning process. Hatakeyama, Jun; Takeda, Takanobu; Ishihara, Toshinobu (Japan). U.S. Pat. Appl. Publ. US 2004013980 Al 20040122, 36 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-611261 20030702. PRIORITY: JP 2002-192910 20020702.

IT 648895-27-6P 648895-29-8P 648895-30-1P 648895-31-2P 648895-33-4P

(silicon-containing polymer, resist composition for patterning process)

RN 648895-27-6 ZCA

CN 2-Propenoic acid, 2-methyl-, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and methyl ethenesulfonate (9CI) (CA INDEX NAME)

CRN 266308-58-1 CMF C11 H18 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 1562-31-8 CMF C3 H6 O3 S

RN 648895-29-8 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-ethylbicyclo[2.2.1]hept-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and methyl

ethenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 330595-98-7 CMF C13 H20 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 1562-31-8 CMF C3 H6 O3 S

RN 648895-30-1 ZCA

CN 2-Propenoic acid, 2-methyl-, 1-methyl-2-(trimethylsilyl)ethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and methyl ethenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 409320-43-0 CMF C10 H20 O2 Si

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 1562-31-8 CMF C3 H6 O3 S

RN 648895-31-2 ZCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and methyl ethenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 279243-69-5 CMF C15 H22 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 1562-31-8 CMF C3 H6 O3 S

RN 648895-33-4 ZCA

CN Butanedioic acid, methylene-, 1-(1-ethylcyclopentyl) 4-methyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and methyl ethenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 648895-32-3 CMF C13 H20 O4

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 1562-31-8 CMF C3 H6 O3 S

L19 ANSWER 8 OF 59 ZCA COPYRIGHT 2004 ACS on STN

140:84642 Silicon-containing polymer, resist composition and patterning process. Takeda, Takanobu; Hatakeyama, Jun; Ishihara, Toshinobu (Japan). U.S. Pat. Appl. Publ. US 2004006191 A1 20040108, 20 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-611014 20030702. PRIORITY: JP 2002-192947 20020702.

IT 640728-38-7P 640728-39-8P 640728-40-1P

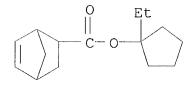
(silicon-containing polymer, resist composition and patterning process)

RN 640728-38-7 ZCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX/NAME)

CM 1

CRN 279243-69-5 CMF C15 H22 O2



CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CRN 108-31-6 CMF C4 H2 O3

RN 640728-39-8 ZCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2ethylbicyclo[2.2.1]hept-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 330596-01-5 CMF C17 H24 O2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CRN 108-31-6 CMF C4 H2 O3

RN 640728-40-1 ZCA

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2ethyltricyclo[3.3.1.13,7]dec-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 328087-87-2 CMF C20 H28 O2

CM 2

CM 3

CRN 108-31-6 CMF C4 H2 O3

L19 ANSWER 9 OF 59 ZCA COPYRIGHT 2004 ACS on STN

140:60660 A novel hydrophobic pervaporation separation membrane based on concentrated emulsion. Shi, Shengpeng; Du, Zhongjie; Zhang, Chen; Li, Hangquan (The Key Laboratory of Beijing City on Preparation and Processing of Novel Polymer Materials, Beijing University of Chemical Technology, Beijing, 100029, Peop. Rep. China). Polymeric Materials Science and Engineering, 89, 440 (English) (2003.) CODEN: PMSEDG. ISSN: 0743-0515. Publisher: American Chemical Society.

IT 637777-85-6P

(hydrophobic pervaporation separation membrane based on concentrated

emulsion)

RN 637777-85-6 ZCA

CN Benzene, diethenyl-, polymer with ethenylbenzene, ethenylheptamethylcyclotetrasiloxane and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CRN 1321-74-0 CMF C10 H10 CCI IDS



CM 3

CRN 556-67-2 CMF C8 H24 O4 Si4

CRN 100-42-5 CMF C8 H8

 $H_2C = CH - Ph$

L19 ANSWER 10 OF 59 ZCA COPYRIGHT 2004 ACS on STN

140:50319 Photoacid generating compounds, chemically amplified positive resist materials, and pattern forming method. Hatakeyama, Jun; Kobayashi, Tomohiro; Ohsawa, Youichi (Japan). U.S. Pat. Appl. Publ. US 2003235779 Al 20031225, 47 pp., Cont.-in-part of U.S. Pat. Appl. 2003 207,201. (English). CODEN: USXXCO. APPLICATION: US 2003-375773 20030227. PRIORITY: JP 2001-397192 20011227; US 2002-331785 20021227.

IT 635715-36-5 635715-38-λ

(resin; chemical amplified pos. resist materials containing)

RN 635715-36-5 ZCA

CN 2-Propenoic acid, 2-ethylbicyclo[2.2.1]hept-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 449173-03-9 CMF C12 H18 O2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

RN 635715-38-7 ZCA

CN 2-Propenoic acid, 1-methyl-2-(trimethylsilyl)ethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 635715-37-6

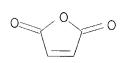
CMF C9 H18 O2 Si

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3



L19 ANSWER 11 OF 59 ZCA COPYRIGHT 2004 ACS on STN
139:267981 Photosensitive acid generating agent, chemically amplified positively-working photoresist material, and patterning method. Hatakeyama, Jun; Kobayashi, Tomohiro; Osawa, Yoichi (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003261529 A2 20020919, 49 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-369145 20021220. PRIORITY: JP 2001-397192 20011227.

IT 601520-60-9 601520-61-0

(photosensitive fluoroalkylimidic acid-generating agent for chemical

amplified pos.-working photoresist material)

RN 601520-60-9 ZCA

CN 2-Propenoic acid, 2-methyl-, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 271598-68-6 CMF C13 H20 O2

Relative stereochemistry.

$$R$$
 R
 Et
 O
 CH_2

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6

CMF C4 H2 O3

RN 601520-61-0 ZCA

CN 2-Propenoic acid, 2-methyl-, 1-methyl-2-(trimethylsilyl)ethyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 409320-43-0 CMF C10 H20 O2 Si

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{O-C-C-Me} \\ \parallel \\ \text{Me-CH-CH}_2\text{-SiMe}_3 \end{array}$$

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 108-31-6 CMF C4 H2 O3

L19 ANSWER 12 OF 59 ZCA COPYRIGHT 2004 ACS on STN

139:53434 Synthesis of Branched Polysiloxanes with Controlled Branching and Functionalization by Anionic Ring-Opening Polymerization. Chojnowski, J.; Cypryk, M.; Fortuniak, W.; Scibiorek, M.; Rozga-Wijas, K. (Center of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, 90-363, Pol.). Macromolecules, 36(11), 3890-3897 (English) 2003. CODEN: MAMOBX. ISSN: 0024-9297. Publisher: American Chemical Society.

IT 548491-48-1DP, trimethylsilyl-terminated

(dendritic; synthesis of branched polysiloxanes with controlled branching and functionalization by anionic ring-opening

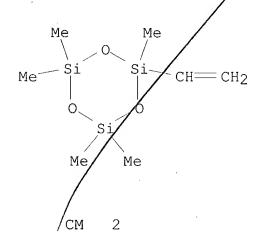
polymerization)

RN 548491-48-1 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3



CRN 541-05-9 CMF C6 H18 O3 Si3

418801-57-7DP, Hexamethylcyclotrisiloxane-2-vinyl-2,4,4,6,6-pentamethylcyclotrisiloxane copolymer, butyldimethylsilyl-terminated (star four arms; synthesis of branched polysiloxanes with controlled branching and functionalization by anionic ring-opening polymerization)

RN 418801-57-7 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CM 2

CRN 541-05-9

CMF C6 H18 O3 Si3

IT 95243-85-9DP, trimethylsilyl-terminated

(synthesis of branched polysiloxanes with controlled branching and functionalization by anionic ring-opening polymerization)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 13 OF 59 ZCA COPYRIGHT 2004 ACS on STN

137:353455 Chemoselective anionic ring-opening polymerization of cyclotetrasiloxanes. Teng, Conan James; Weber, William P. (D.P. and K. B. Loker Hydrocarbon Research Inst., Dept. of Chemistry, University of Southern California, Los Angeles, CA, 90089-1661, USA). Polymer Preprints (American Chemical Society, Division of Polymer Chemistry), 43(2), 1203-1204 (English) 2002. CODEN: ACPPAY. ISSN: 0032-3934. Publisher: American Chemical Society, Division of Polymer Chemistry.

IT 474419-00-6P

(chemoselective anionic ring-opening polymerization of cyclotetrasiloxanes)

RN 474419-00-6 ZCA

CN Cyclotetrasiloxane, 2-ethenyl-4,4,6,6,8,8-hexamethyl-2-phenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18551-64-9 CMF C14 H26 O4 Si4

L19 ANSWER 14 OF 59 ZCA COPYRIGHT 2004 ACS on STN

137:202031 Preparation and patterning process of silicon-containing chemical amplification positive resist compositions. Takeda, Takanobu; Hatakeyama, Jun; Ishihara, Toshinobu; Kubota, Tohru; Kubota, Yasufumi (Shin-Etsu Chemical Co., Ltd., Japan). Eur. Pat. Appl. EP 1236745 A2 2002(904, 33 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR. (English). CODEN: EPXXDW. APPLICATION: EP 2002-251419 20020228. PRIORITY: JP 2001-56543 2001-030T.

IT 452912-31-1P, Maleic anhydride-vinylheptamethylcyclotetrasil oxane copolymer 452912-33-3P, Maleic anhydride-vinylheptamethylcyclotetrasiloxane-1-ethylcyclopentyl methacrylate copolymer 452912-35-5P, Maleic anhydride-vinylheptamethylcyclotetrasiloxane-2-ethyl-2-adamantyl methacrylate copolymer

(crued and uncured; silicon-containing chemical amplification posresist compns. and patterning process thereof)

RN 452912-31-1 ZCA

CN 2,5-Furandione, polymer with ethenylheptamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CM 2

CRN 108-31-6 CMF C4 H2 O3

RN 452912-33-3 ZCA

CN 2-Propenoic acid, 2-methyl-, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 266308-58-1 CMF C11 H18 O2

CM 2

CM 3

CRN 108-31-6 CMF C4 H2 O3

RN 452912-35-5 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-ethyltricyclo[3.3.1.13,7]dec-2-yl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

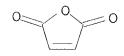
CM 1

CRN 209982-56-9 CMF C16 H24 O2

CM 2

CM 3

CRN 108-31-6 CMF C4 H2 O3



L19 ANSWER 15 OF 59 ZCA COPYRIGHT 2004 ACS on STN

136:341098 Controlled synthesis of vinylmethylsiloxane-dimethylsiloxane gradient, block and alternate copolymers by anionic ROP of cyclotrisiloxanes. Chojnowski, J.; Cypryk, M.; Fortuniak, W.; Rozga-Wijas, K.; Scibiorek, M. (Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Lodz, 90-363, Pol.). Polymer, 43(7), 1993-2001 (English) 2002. CODEN: POLMAG. ISSN: 0032-3861. Publisher: Elsevier Science Ltd..

95243-85-9P 287969-56-6P 418801-57-7P,
2-Vinyl-2,4,4,6,6-pentamethylcyclotrisiloxanehexamethylcyclotrisiloxane copolymer 418807-74-6P
(controlled synthesis of vinylmethylsiloxane-dimethylsiloxane
gradient, block and alternate copolymers by anionic ROP of
cyclotrisiloxanes)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, etheny/pentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9

CMF C7 H18 O3 Si3

RN 287969-56-6 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane, block (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CM 2

CRN 541-05-9 CMF C6 H18 O3 Si3

RN 418801-57-7 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CM 2

CRN 541-05-9 CMF C6 H18 O3 Si3

RN 418807-74-6 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane, alternating (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CM 2

CRN 541-05-9 CMF C6 H18 O3 Si3

L19 ANSWER 16 OF 59 ZCA COPYRIGHT 2004 ACS on STN

135:93045 Process for preparing α, ω -

bis(trimethylsiloxy)poly(methylvinylsiloxane-co-dimethylsiloxane).
Giurgiu, Diana Elisabeta; Hamciuc, Viorica; Pricop, Lucia; Onceriu,
Livia Iolanda (Institutul de Chimie Macromoleculara "Petru Poni",
Iasi, Rom.). Rom. RO 115643 B3 20000428, 4 pp. (Romanian). CODEN:
RUXXA3. APPLICATION: RO 1992-9201637 19921229.

IT 95243-84-8DP, Heptamethylvinylcyclotetrasiloxaneoctamethylcyclotetrasiloxane copolymer, trimethylsilyl-terminated **349099-33-8DP**, trimethylsilyl-terminated

(preparation of vinyl group-containing polysiloxanes)

95243-84-8 ZCA

Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

RN CN

> CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

RN 349099-33-8 ZCA

CN Cycloheptasiloxane, tetradecamethyl-, polymer with decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane, ethenylheptamethylcyclotetrasiloxane, hexamethylcycloterisiloxane and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

CM 3

CRN 541-05-9

CMF C6 H18 O3 Si3

CRN 541-02-6 CMF C10 H30 O5 Si5

CM 5

CRN 540-97-6 CMF C12 H36 O6 Si6

CRN 107-50-6 CMF C14 H42 O7 Si7

L19 ANSWER 17 OF 59 ZCA COPYRIGHT 2004 ACS on STN

133:164419 Controlled synthesis of amphiphilic siloxane-siloxane block copolymers with carboxyl functions. Scibiorek, Marek; Gladkova, Natalia K.; Chojnowski, Julian (Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, 90-363, Pol.). Polymer Bulletin (Berlin), 44(4), 377-384 (English) 2000. CODEN: POBUDR. ISSN: 0170-0839. Publisher: Springer-Verlag.

287969-56-6DP, butyldimethylsilyl and trimethylsilylterminated, reaction products with mercaptoacetic acid (controlled synthesis of amphiphilic siloxane-siloxane block copolymers with carboxyl functions)

RN 287969-56-6 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with hexamethylcyclotrisiloxane, block (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CRN 541-05-9 CMF C6 H18 O3 Si3

(precopolymer; controlled synthesis of amphiphilic siloxane-siloxane block copolymers with carboxyl functions

L19 ANSWER 18 OF 59 ZCA COPYRIGHT 2004 ACS on STN

133:120703 Dependence of reaction ability of organo-cyclosiloxanes to polymerization on polarity of substituent at silicon atom. Khananashvili, L. M.; Gverdtsiteli, M. I.; Kubaneishvili, I. B.; Tsomaya, N. I.; Markarashvili, E. G.; Vardosanidze, Ts. N.; Girgveliani, D. A. (I. Javakashvili Tbilisi State University, Tbilisi, 380038, Georgia). Russian Polymer News, 5(1), 23-27 (English) 2000. CODEN: RPONFY. ISSN: 1093-2984. Publisher: AM-RUSS Rubber and Plastics Consulting.

IT **25085-97-6P**, Heptamethylvinylcyclotetrasiloxane homopolymer (substituent polarity effect of substituted

heptamethylcyclotetrasiloxane monomers on their polymerization)

RN 25085-97-6 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

the 34 or 45

CRN 3763-39-1 CMF C9 H24 O4 Si4

L19 ANSWER 19 OF 59 ZCA COPYRIGHT 2004 ACS on STN

132:348850 Process for manufacture of methylvinylsiloxane elastomer.
Marcu, Mihai; Stanciu, Aurelian (Rom.). Rom. RO 111198 B1 19960730,
3 pp. (Romanian). CODEN: RUXXA3. APPLICATION: RO 1991-148913
19911209.

1T 103737-84-4P, Decamethylcyclopentasiloxaneheptamethylvinylcyclotetrasiloxane-hexamethylcyclotrisiloxaneoctamethylcyclotetrasiloxane copolymer

(efficient process for manufacture of high mol. weight methylvinylsiloxane elastomer with subsequent catalyst

decomposition)

RN 103737-84-4 ZCA

CN Cyclopentasiloxane, decamethyl-, polymer with ethenylheptamethylcyclotetrasiloxane, hexamethylcycloterisiloxane and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1

CMF C9 H24 O4 Si4

CRN 556-67-2 CMF C8 H24 O4 Si4

CM 3

CRN 541-05-9 CMF C6 H18 O3 Si3

CRN 541-02-6 CMF C10 H30 O5 Si5

L19 ANSWER 20 OF 59 ZCA COPYRIGHT 2004 ACS on STN

131:215141 Curable silicone resin compositions with reduced migration of low molecular weight components or functionless components. Yamaguchi, Hiromasa; Kinoshita, Hirofumi; Yamaguchi, Koichi (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 11246772 AZ 19990914 Heisei, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-64772 19980227.

IT **243658-94-8DP**, vinyldimethylsilyl-terminated **243658-96-0DP**, vinyldimethylsilyl-terminated

(manufacture of curable silicone resin compns. with reduced migration

of low mol. weight components or functionless components)

RN 243658-94-8 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with pentamethyl[3-[2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propoxy]propyl]cyclotrisiloxane (9CI) (CA INDEX NAME)

CRN 122734-44-5 CMF C17 H23 F17 O6 Si3

CM 2

CRN 18395-32-9 CMF C7 H18 O3 Si3

RN 243658-96-0 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with pentamethyl[3,4,4,4-tetrafluoro-3-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propoxy]butyl] cyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 135201-47-7 CMF C18 H19 F23 O6 Si3

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 21 OF 59 ZCA COPYRIGHT 2004 ACS on STN

131:116633 Modification of polysiloxanes by free-radical addition of pyridylthiols to the vinyl groups of the polymer. Herczynska, Lucyna; Lestel, Laurence; Boileau, Sylvie; Chojnowski, Julian; Polowinski, Stefan (Laboratoire de Chimie Macromoleculaire associe au CNRS: URA 24, College de France, Paris, 75231, Fr.). European Polymer Journal, 35(6), 1115-1122 (English) 1999. CODEN: EUPJAG. ISSN: 0014-3057. Publisher: Elsevier Science Ltd..

IT **95243-85-9DP**, reaction products with (pyridyl)ethanethiol and pyridylthiol

(modification of polysiloxanes by free-radical addition of pyridylthiols to vinyl groups)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

Use

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 22 OF 59 ZCA COPYRIGHT 2004 ACS on STN

131:103042 Polysiloxanes having reactive organic groups, inorganic materials surface-treated with them, and their compositions. Ando, Eiji; Yasuda, Hirofumi; Takahashi, Susumu (Nippon Unicar Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 11172000 A2 19990629 Heisei, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-363637 19971216.

IT 229473-78-3P

(polysiloxanes having reactive organic groups and their compns. for surface treatment of inorg. materials)

RN 229473-78-3 ZCA

CN . Cyclotetrasiloxane, ethenylheptamethyl-, polymer with dodecaethoxypentasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 4935-68-6 CMF C24 H60 O16 Si5

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

L19 ANSWER 23 OF 59 ZCA COPYRIGHT 2004 ACS on STN

129:162129 Synthesis and properties of polyacrylate - polyorganosiloxane composite latex. Zhao, Peizhen; Kan, Chengyou; Zhu, Xiaoli; Kong, Xiangzheng (Dep. Chem., Shandong Univ., Jinan Peop. Rep. China).

Hecheng Xiangjiao Gongye, 21(4), 217-219 (Chinese) 1998. CODEN:

HXGOEA. ISSN: 1000-1255. Publisher: Lanzhou Huaxue Gongye Gongsi

Huagong Yanjiuyuan.

211117-74-7P, Butyl acrylate-methacrylic acid-methyl methacrylate-octamethylcyclotetrasiloxane-vinylheptamethylcyclotetrasiloxane graft copolymer (synthesis and properties of polyacrylate-polyorganosiloxane composite latex)

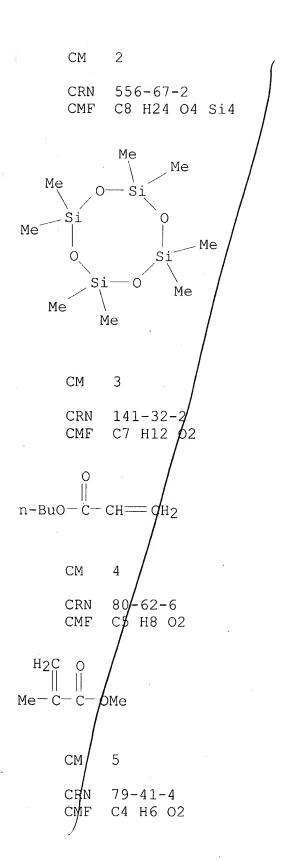
RN 211117-74-7 ZCA

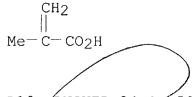
1

CM

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylheptamethylcyclotetrasiloxane, methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

Me





L19 ANSWER 24 OF 59 ZCA COPYRIGHT 2004 ACS on STN 128:89214 Graft emulsion copolymerization of acrylates and siloxane.

Kan, Cheng-You; Zhu, Xiao-Li; Yuan, Qing; Kong, Xiang-Zheng (Department of Chemistry, Shandong University, Jinan, 250100, Peop. Rep. China). Polymers for Advanced Technologies, 8(11), 631-633 (English) 1997. CODEN: PADTE5. ISSN: 1042-7147. Publisher: John Wiley & Sons Ltd..

200882-27-5P, Butyl acrylate-heptamethylvinylcyclotetrasilox ane-methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer (graft emulsion copolymn. of acrylates and siloxane and mech. products of such products)

RN 200882-27-5 ZCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylheptamethylcyclotetrasiloxane and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

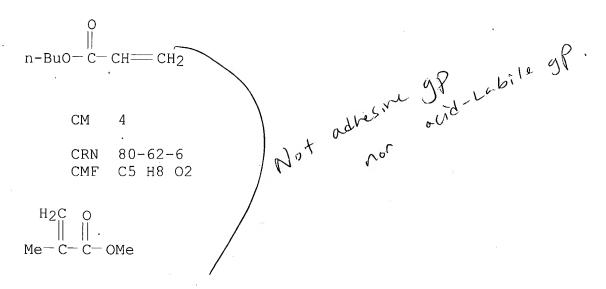
CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

CRN 141-32-2 CMF C7 H12 O2



L19 ANSWER 25 OF 59 ZCA COPYRIGHT 2004 ACS on STN

128:76215 Ion transport across membranes prepared by gel
crystallization. Klok, Harm-Anton; Eibeck, Peter; Gankema, Harold;
Nieuwhof, Rene P.; Moller, Martin; Reinhoudt, David N. (Organische
Chemie III/Makromolekulare Chemie Universitat Ulm, Ulm, D-89069,
Germany). Journal of Polymer Science, Part B: Polymer Physics,
36(2), 383-394 (English) 1998. CODEN: JPBPEM. ISSN: 0887-6266.
Publisher: John Wiley & Sons, Inc..

IT **200552-56-3**

(membrane; ion transport across membranes prepared by gel crystallization) RN 200552-56-3 ZCA

CN Cyclotetrasiloxanebutanenitrile, 2,4,4,6,6,8,8-heptamethyl-, polymer with ethenylheptamethylcyclotetrasiloxane and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 20272-43-9 CMF C11 H27 N O4 Si4

CM 2

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 3

CRN 556-67-2 CMF C8 H24 O4 Si4

L19 ANSWER 26 OF 59 ZCA COPYRIGHT 2004 ACS on STN

126:89877 Side-Chain Liquid-Crystalline Polysiloxanes via Anionic Polymerization: (n-Undecyloxyarenecarboxylic Acid Mesogens Linked to Poly(dimethylsiloxane-co-methylvinylsiloxane). Hempenius, Mark A.; Lammertink, Rob G. H.; Vancso, G. Julius (University of Twente, Enschede, 7500 AE, Neth.). Macromolecules, 30(2), 266-272 (English) 1997. CODEN: MAMOBX. ISSN: 0024-9297. Publisher: American Chemical Society.

IT 95243-85-9DP, tert-butyldimethylsilyl- and
 trimethylsilyl-terminated, reaction products with
 n-undecylarenecarboxylates, hydrogenolyzates
 (preparation of side-chain liquid-crystalline siloxanes containing
 (n-undecyloxyarenecarboxylic acid mesogens linked to
 poly(dimethylsiloxane-co-methylvinylsiloxane) via flexible
 disiloxane link)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

We 27 or

L19 ANSWER 27 OF 59 ZCA COPYRIGHT 2004 ACS on STN 126:75529 Preparation of polyacrylate-polysiloxane core-shell latex particles. Kong, Xiang Zheng; Kan, Cheng You; Yuan, Qing (Department Chemistry, Shandong University, Jinan, 250100, Peop. Rep. China). Polymers for Advanced Technologies, 7(12), 888-890 (English) 1996. CODEN: PADTE5. ISSN: 1042-7147. Publisher: Wiley. IT 185500-25-8P, Butyl acrylate-ethylene glycol dimethacrylate-methacrylic acid-methyl methacrylateoctamethyltetracyclosiloxane-vinylheptamethyltetrasiloxane copolymer (core-shell; preparation and characterization of polyacrylatepolysiloxane core-shell latex particles) RN 185500-25-8 ZCA 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, CN 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylheptamethylcyclotetrasiloxane, methyl 2-methyl-2-propenoate

and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME) CM CRN 3763-39-1 CMF C9 H24 O4 Si4 Me CH2 Me Me CM2 556-67-2 CRN C8/ H24 O4 Si4 CMF

CRN 79-41-4 CMF C4 H6 O2

CH₂ || Me-C-CO₂H

L19 ANSWER 28 OF 59 ZCA COPYRIGHT 2004 ACS on STN

125:329695 Well-defined side-chain liquid-crystalline polysiloxanes. [Erratum to document cited in CA125:34305]. Hempenius, Mark A.; Lammertink, Rob G. H.; Vancso, G. Julius (Univ. of Twente, Enschede, 7500, Neth.). Macromolecular Rapid Communications, 17(11), 843 (English) 1996. CODEN: MRCOE3. ISSN: 1022-1336. Publisher: Huethiq & Wepf.

IT 95243-85-9DP, reaction products with 4-cyano-4'-(ω -pentenyloxy)biphenyl or 4-cyano-4'-(ω -decenyloxy)biphenyl (preparation of side-chain liquid-crystalline polysiloxanes with biphenyl

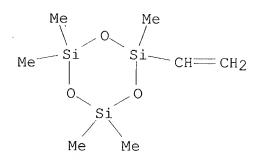
side-chain groups (Erratum))

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3



USL & 47 or 55

IT 95243-85-9P

 $(\hbox{preparation of side-chain liquid-crystalline polysiloxanes with biphenyl}$

side-chain groups (Erratum))

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 29 OF 59 ZCA COPYRIGHT 2004 ACS on STN

125:34305 Well-defined side-chain liquid-crystalline polysiloxanes. Hempenius, Mark A.; Lammertink, Rob G. H.; Vancso, G. Julius (Univ. of Twente, Enschede, 7500, Neth.). Macromolecular Rapid Communications, 17(5), 299-303 (English) 1996. CODEN: MRCOE3. ISSN: 1022-1336. Publisher: Huethig & Wepf.

95243-85-9DP, reaction products with 4-cyano-4'-(ω-pentenyloxy)biphenyl or 4-cyano-4'-(ω-decenyloxy)biphenyl (preparation of side-chain liquid-crystalline polysiloxanes with biphenyl

side-chain groups)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

Wel 55 or 47

IT 95243-85-9P

 $(preparation\ of\ side-chain\ liquid-crystalline\ polysiloxanes\ with\ biphenyl$

side-chain groups)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 30 OF 59 ZCA COPYRIGHT 2004 ACS on STN

124:204666 Preparation of methyl vinyl silicone rubbers. Marcu, Mihai; Streba, Emilia; Stiubianu, Gheorghe; Bolohan, Stefan (Combinatul Petrochimic, Borzesti, Rom.). Rom. RO 104964 B1 19941219, 4 pp. (Romanian). CODEN: RUXXA3. APPLICATION: RO 1989-141732 19890922.

IT 95243-84-8DP, Heptamethylvinylcyclotetrasiloxaneoctamethylcyclotetrasiloxane copolymer, trimethylsilyl-terminated (rubber; preparation of Me vinyl silicone rubbers with narrow mol.-weight

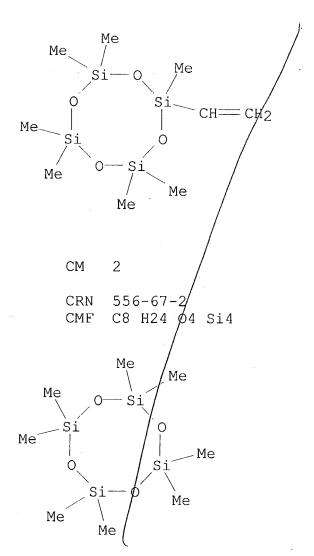
distribution)

RN 95243-84-8 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CME C9 H24 O4 Si4



L19 ANSWER 31 OF 59 ZCA COPYRIGHT 2004 ACS on STN
124:203266 Controlled Synthesis of Siloxane Copolymers Having an
Organosulfur Group by Polymerization of Cyclotrisiloxanes with Mixed
Units. Rozga-Wijas, K.; Chojnowski, J.; Zundel, T.; Boileau, S.
(Center of Molecular and Macromolecular Studies, Polish Academy of
Sciences, Lodz, 90-363, Pol.). Macromolecules, 29(8), 2711-20
(English) 1996. CODEN: MAMOBX. ISSN: 0024-9297. Publisher:

USC 55 or 47 Instead

American Chemical Society.

IT 95243-85-9DP, reaction products with alkylthiols

(controlled synthesis of siloxane copolymers having an organosulfur group by polymerization of cyclotrisiloxanes with

mixed

units)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

IT **95243-85-9P**, 1,3,3,5,5-Pentamethyl-1-vinylcyclotrisiloxane homopolymer

(intermediate; controlled synthesis of siloxane copolymers having an organosulfur group by polymerization of cyclotrisiloxanes with mixed

units)

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9

CMF C7 H18 O3 Si3

L19 ANSWER 32 OF 59 ZCA COPYRIGHT 2004 ACS on STN

122:266288 Preparation of linear fluorine-containing siloxanes by polymerization of cyclotrisiloxanes. Inomata, Hiroshi; Fukuda, Kenichi; Kishita, Hirofumi; Saito, Yoshikazu; Yamaguchi, Kouichi; Kobayashi, Nobuyuki (Shin-Etsu Chemical Co., Ltd., Japan). Eur. Pat. Appl. EP 611785 A2 19940824, 37 pp. DESIGNATED STATES: R: DE, FR, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1994-301073 19940215. PRIORITY: JP 1993-50100 19930215; JP 1993-50101 19930215; JP 1993-50102 19930215.

IT 162738-64-9P 162738-65-0P

(lithium silanolate catalysts for preparation of linear)

RN 162738-64-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with pentamethyl[3,3,4,4-tetrafluoro-4-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]butyl]cyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 149538-26-1 CMF C15 H19 F17 O5 Si3

CRN 18395-32-9 CMF C7 H18 O3 Si3

RN 162738-65-0 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with pentamethyl(3,3,4,4,5,5,6,6,6-nonafluorohexyl)cyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 122734-54-7 CMF C11 H19 F9 O3 Si3

Me Me Me Me
$$CH_2-CH_2-(CF_2)_3-CF_3$$
Me Me Me

CM 2

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 33 OF 59 ZCA COPYRIGHT 2004 ACS on STN

116:237151 Electrically conducting vulcanizates based on polymerization-filled organosilicon elastomers. Aneli, D. N.;
Pagava, D. G.; Kakuliya, Ts. V.; Tsomaya, N. I. (Gruz. NII Energ. Gidrosooru Zhen., Tbilisi, USSR). Kauch.-89: Probl. Razvit. Nauki Proizvod., Mater. Vses. Nauchno-Tekh. Konf., Meeting Date 1989, 154-8. Editor(s): Kormer, V. A. TsNIITEneftekhim: Moscow, USSR. (Russian) 1990. CODEN: 56YHAA.

95243-84-8, Heptamethylvinylcyclotetrasiloxaneoctamethylcyclotetrasiloxane copolymer (rubber, thermally treated graphite-filled, elec. conductivity and properties of)

RN 95243-84-8 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CRN 556-67-2 CMF C8 H24 O4 Si4

L19 ANSWER 34 OF 59 ZCA COPYRIGHT 2004 ACS on STN

116:106943 Synthesis, of 1-vinyl-1,5,5-trimethyl-3,3,7,7-tetraphenyl-cyclotetrasiloxane and polymers based on it. Khananashvili, L. M.; Akhobadze, D. Sh.; Otiashvili, D. V.; Andronikashvili, G. Sh.; Giorgobiani, N. G. (USSR). Izvestiya Akademii Nauk Gruzii, Seriya Khimicheskaya, 17(1), 23-6 (Georgian) 1991. CODEN: IANKEJ.

IT 139196-40-0P 139196-41-1P

(preparation and thermal stability of)

RN 139196-40-0 ZCA

CN Cyclotetrasiloxane, 2-ethenyl-2,6,6-trimethyl-4,4,8,8-tetraphenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 139196-39-7 CMF C29 H32 O4 Si4

RN 139196-41-1 ZCA

CN Cyclotetrasiloxane, 2-ethenyl-2,6,6-trimethyl-4,4,8,8-tetraphenyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 139196-39-7 CMF C29 H32 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

L19 ANSWER 35 OF 59 ZCA COPYRIGHT 2004 ACS on STN
113:173858 Organopolysilanes as photopolymerization initiators of poly(methylvinylsiloxanes) and poly(dimethylsiloxanes). Semenov, V. V.; Cherepennikova, N. F.; Artemicheva, S. B.; Razuvaev, G. A. (Inst. Organomet. Chem., Gorky, USSR). Applied Organometallic

Chemistry, 4(2), 163-72 (English) 1990. CODEN: AOCHEX. ISSN: 0268-2605.

IT 95243-84-8 95243-84-8D, divinylmethylsiloxy- or

trimethylsiloxy-terminated

(rubber, photochem. vulcanization agents for, organosilane oligomers as)

RN 95243-84-8 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

RN 95243-84-8 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

L19 ANSWER 36 OF 59 ZCA COPYRIGHT 2004 ACS on STN
106:50743 Graft anionic copolymerization of octamethylcyclotetrasiloxane
 with oligostyrene carbocyclosiloxanes. Zhdanov, A. A.; Zavin, B.
 G.; Blokhina, O. G. (Inst. Elementoorg. Soedin. im. Nesmeyanova,
 Moscow, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 28(10),
 2185-90 (Russian) 1986. CODEN: VYSAAF. ISSN: 0507-5475.

IT **62503-79-1**

(graft polymerization of, with octamethylcyclotetrasiloxane, kinetics of

and chain transfer in anionic)

RN 62503-79-1 ZCA

CN Cyclotrisiloxane, 2-ethenyl-2-methyl-4,4,6,6-tetraphenyl-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1 CRN 1457-02-9 C27 H26 O3 Si3 CMF Ме CH2 Ph Ph CM 100-42-5 CRN CMF/ C8 H8 $H_2C =$ th- Ph

L19 ANSWER 37 OF 59 ZCA COPYRIGHT 2004 ACS on STN

105:135293 Silicone elastomer composition. Watanabe, Junichiro;
Funahashi, Yuichi; Sugiura, Kazuo; Matsumoto, Hironori (Toshiba Silicone Co., Ltd., Japan). Eur. Pat. Appl. EP 180843 A1 19860514,
29 pp. DESIGNATED STATES: R: DE, FR, GB. (English). CODEN:
EPXXDW. APPLICATION: EP 1985-113341 19851021. PRIORITY: JP
1984-221540 19841022.

IT 103811-47-8P

(rubber, manufacture and peroxide vulcanization of)

RN 103811-47-8 ZCA

CN Cyclotetrasiloxane, (1-ethylidenebutyl)heptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 103811-46-7 CMF C13 H32 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

L19 ANSWER 38 OF 59 ZCA COPYRIGHT 2004 ACS on STN

105:80376 Methyl vinyl silicone rubber. Marcu, Mihai; Stiubianu, Gheorghe; Ilie, Silvia Elena; Perjoiu, Mihaela; Streba, Emilia; Pricop, Lucia; Roman, Gheorghe (Institutul de Chimie Macromoleculara "Petru Poni", Rom.). Rom. RO 86739 B1 19850430, 2 pp. (Romanian). CODEN: RUXXA3. APPLICATION: RO 1982-109195 19821202.

IT 103737-84-4P

(rubber, manufacture of, for vulcanizates with low permanent set)

RN 103737-84-4 ZCA

CN Cyclopentasiloxane, decamethyl-, polymer with ethenylheptamethylcyclotetrasiloxane, hexamethylcyclotrisiloxane and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 556-67-2 CMF C8 H24 O4 Si4

CM 3

CRN 541-05-9

CMF C6 H18 O3 Si3

CRN 541-02-6 CMF C10 H30 O5 Si5

L19 ANSWER 39 OF 59 ZCA COPYRIGHT 2004 ACS on STN

103:6823 Synthesis of polystyrene-polysiloxane graft copolymers.
Zhdanov, A. A.; Zavin, B. G.; Blokhina, O. G. (Inst. Elementoorg. Soedin. im. Nesmeyanova, Moscow, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 27(4), 749-55 (Russian) 1985. CODEN: VYSAAF. ISSN: 0507-5475.

IT 96787-85-8P

(graft, preparation, structure and properties of)

RN 96787-85-8 ZCA

CN Cyclotetrasiloxane, octamethyl-, polymer with ethenylbenzene and 2-ethenyl-2-methyl-4,4,6,6-tetraphenylcyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 1457-02-9 CMF C27 H26 O3 Si3

CRN 556-67-2 CMF C8 H24 O4 Si4

CM 3

CRN 100-42-5 CMF C8 H8

 $H_2C = CH - Ph$

L19 ANSWER 40 OF 59 ZCA COPYRIGHT 2004 ACS on STN
102:114080 Effect of diethyl phosphite and diethylphosphine oxide on polydimethylvinylsiloxanes. Zhdanov, A. A.; Kurasheva, N. A.; Kuteinikova, L. I. (Inst. Elementoorg. Soedin. im. Nesmėyanova, Moscow, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 26(12), 2588-92 (Russian) 1984. CODEN: VYSAAF. ISSN: 0507-5475.

IT **95243-84-8**

(attempted phosphorylation of, by diethylphosphine oxide and

di-Et phosphite, polymer degradation in)

RN 95243-84-8 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, polymer with octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

IT 25085-97-6 95243-85-9

(phosphorylation of, photochem., by diethylphosphine oxide)

RN 25085-97-6 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

CRN 3763-39-1 CMF C9 H24 O4 Si4

RN 95243-85-9 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 41 OF 59 ZCA COPYRIGHT 2004 ACS on STN

101:152876 Poly(methylperfluoroisopropoxypropyldimethylsiloxane).
Yuzhelevskii, Yu. A.; Fedoseeva, N. N.; Knunyants, I. L.; Dyatkin,
B. L.; Shokina, V. V.; Mileshkevich, V. P. (USSR). U.S.S.R. SU
507046 Al 19840615 From: Otkrytiya, Izobret., Prom. Obraztsy,
Tovarnye Znaki 1984, (22), 183. (Russian). CODEN: URXXAF.
APPLICATION: SU 1974-2033870 19740617.

IT 92268-65-0P

(manufacture of, in presence of DMF)

RN 92268-65-0 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with pentamethyl[3-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethoxy]propyl] cyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 56153-41-4 CMF C11 H21 F7 O4 Si3

Me Me Me
$$CF_3$$
 CF_3 CF_3 CF_3

CM 2

CRN 18395-32-9 CMF C7 H18 O3 Si3

L19 ANSWER 42 OF 59 ZCA COPYRIGHT 2004 ACS on STN 100:68799 Anionic nonequilibrium copolymerization of hexaorganocyclotrisiloxanes having polar substituents on the silicon atom. Baratova, T. N.; Mileshkevich, V. P.; Gurari, V. E. (Vses. Nauchno-Issled. Inst. Sint. Kauch., Leningrad, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 25(12), 2497-505 (Russian) 1983. CODEN: VYSAAF. ISSN: 0507-5475.

IT 88729-38-8P

(preparation and sequence distribution of)

RN 88729-38-8 ZCA

CN Cyclotrisiloxane, ethenylpentamethyl-, polymer with $(2\alpha, 4\alpha, 6\alpha)$ -2,4,6-trimethyl-2,4,6-triphenylcyclotrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 18395-32-9 CMF C7 H18 O3 Si3

CM 2

CRN 3424-57-5 CMF C21 H24 O3 Si3

Relative stereochemistry.

L19 ANSWER 43 OF 59 ZCA COPYRIGHT 2004 ACS on STN
93:186834 Anionic polymerization of aryl(diaryl)ethyl- and
 vinylorganocyclosiloxanes. Nogaideli, A. I.; Nakaidze, L. I.;
 Tskhovrebashvili, V. S. (Tbilisi. Gos. Univ., Tbilisi, USSR).
 Izvestiya Akademii Nauk Gruzinskoi SSR, Seriya Khimicheskaya, 6(1),
50-3 (Russian) 1980. CODEN: IGSKDH. ISSN: 0132-6074.

IT 75084-91-2P

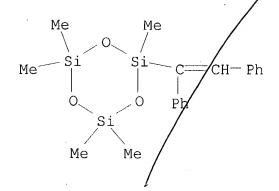
(preparation of, anionic)

RN 75084-91-2 ZCA

CN Cyclotrisiloxane, (1,2-diphenylethenyl)pentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 67364-40-3 CMF C19 H26 O3 Si3



L19 ANSWER 44 OF 59 ZCA COPYRIGHT 2004 ACS on STN

91:175742 Azido group-containing polysiloxane compositions. Tsunoda, Takahiro; Yamaoka, Tsuguo; Ozeki, Kenichi; Hatanaka, Masayuki; Funahashi, Yuichi (Toshiba Silicone Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 54069197 19790602 Showa, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1977-137105 19771115.

IT **71680-40-5**

(photoresists, printing plates from) .

RN 71680-40-5 ZCA

CN Benzoic acid, 3-azido-, (8-ethenyl-2,4,6,8tetramethylcyclotetrasiloxane-2,4,6-triyl)tri-4,1-butanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 71206-70-7 CMF C39 H51 N9 O10 Si4

$$C = 0$$

$$C = 0$$

$$C = 0$$

$$Me = Si = 0$$

$$Me = Si = Me$$

$$C = CH = Si$$

$$Me = 0$$

$$C = 0$$

$$C = 0$$

$$C = 0$$

$$Race 2-A$$

L19 ANSWER 45 OF 59 ZCA COPYRIGHT 2004 ACS on STN 87:168679 Thermal and radiation-induced degradation of polysiloxane layers produced by an electron-beam method. Sutyagin, V. A.; Tsapuk, A. K. (Fiz.-Khim. Inst. im. Karpova, Moscow, USSR). Khimiya Vysokikh Energii, 11(5), 308-12 (Russian) 1977. CODEN: KHVKAO.

ISSN: 0023-1193.

IT 25085-97-6

(films, oxidative degradation of, by γ ray and heat) RN 25085-97-6 ZCA

Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA CN INDEX NAME)

CM1

CRN 3763-39-1 CMF C9 H24 O4 Si4

ANSWER 46 OF 59 ZCA COPYRIGHT 2004 ACS on STN 86:156049 Study of the radical copolymerization of 1-methyl-1-vinyl-3,3,5,5-tetraphenylcyclotrisiloxane with styrene. Andrianov, K. A.; Blokhina, O. G.; Zavin, B. G.; Pertsova, N. V. (Inst. Elementoorg. Soedin., Moscow, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 19(2), 434-40 (Russian) 1977. CODEN: VYSAAF. ISSN: 0507-5475.

IT62503-79-1P

(preparation, glass transition temperature, and oxidative thermal degradation

of)

RN 62503-79-1 ZCA

Cyclotrisiloxane, 2-ethenyl-2-methyl-4,4,6,6-tetraphenyl-, polymer CN with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 1457-02-9 CMF C27 H26 O3 Si3

use 47/59

CRN 100-42-5 CMF C8 H8

H₂C== CH-Ph

L19 ANSWER 47 OF 59 ZCA COPYRIGHT 2004 ACS on STN

84:165609 Polyorganosiloxanes containing methylvinylsiloxane links.
Kaufman, B. L.; Yuzhelevskii, Yu. A.; Savchenko, V. M.;
Mileshkevich, V. P.; Karlin, A. V.; Sergeeva, E. P.; Serova, T. P.;
Norden, N. E. (USSR). U.S.S.R. SU 504804 19760228 From: Otkrytiya,
Izobret., Prom. Obraztsy, Tovarnye Znaki 1976, 53(8), 63.
(Russian). CODEN: URXXAF. APPLICATION: SU 1973-1958495 19730918.

IT **59138-23-7**

(heat-resistant)

RN 59138-23-7 ZCA

CN Cyclotrisiloxane, 2-ethenyl-2,4,6-trimethyl-4,6-diphenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 59138-22-6

CMF C17 H22 O3 Si3

L19 ANSWER 48 OF 59 ZCA COPYRIGHT 2004 ACS on STN

75:110907 Succinimidoalkylsilanes and siloxanes. Wu, Tse C. (General Electric Co.). U.S. US 3586699 19710622, 5 pp. Division of U.S. 3,444,128 (CA 71;40019k). (English). CODEN: USXXAM. APPLICATION: US 1968-795756 19681024.

IT 33969-77-6P

(preparation of)

RN 33969-77-6 ZCA

CN Succinimide, N-[2-(pentamethylcyclotrisiloxanyl)ethyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 22304-52-5 CMF C11 H23 N O5 Si3

CM 2

CRN 1457-02-9 CMF C27 H26 O3 Si3

- L19 ANSWER 49 OF 59 ZCA COPYRIGHT 2004 ACS on STN
 73:120967 Activity of organocyclosiloxanes during anionic
 polymerization. Andrianov, K. A.; Petrova, I. M.; Yakushkina, S. E.
 (Inst. Elementoorg. Soedin., Moscow, USSR). Vysokomolekulyarnye
 Soedineniya, Seriya A, 12(8), 1683-6 (Russian) 1970. CODEN: VYSAAF.
 ISSN: 0507-5475.
- RN 25085-97-6 ZCA
 CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

CRN 3763-39-1 CMF C9 H24 O4 Si4

1

CM

use 5//59

L19 ANSWER 50 OF 59 ZCA COPYRIGHT 2004 ACS on STN 72:55640 Sulfone-containing organocyclotrisiloxanes. Wu, Tse C. (General Electric Co.). U.S. US 3487098 19691230, 5 pp. (English). CODEN: USXXAM. APPLICATION: US 1966-601877 19661215.

IT 25585-09-5P

(preparation of)

RN 25585-09-5 ZCA

CN Cyclotrisiloxane, 2-methyl-4,4,6,6-tetraphenyl-2-vinyl-, polymer with pentamethyl[2-(methylsulfonyl)ethyl]cyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 24413-69-2 CMF C8 H22 O5 S Si3

CM 2

CRN 1457-02-9 CMF C27 H26 O3 Si3

L19 ANSWER_51 OF 59 ZCA COPYRIGHT 2004 ACS on STN

71:71312 Electrical properties of polymeric films prepared on a metallic surface during its electron irradiation. Tsapuk, A. K.; Kolotyrkin, V. M.; Shchurov, A. G.; Butaev, A. M.; Tunitskii, N. N. (USSR). Trudy po Khimii i Khimicheskoi Tekhnologii (2), 26-9 (Russian) 1968. CODEN: TKKTAE. ISSN: √0564-3457.

IT 25085-97-6

(elec. properties of, in electron-irradiated films on aluminum) RN 25085-97-6 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

L19 ANSWER 52 OF 59 ZCA COPYRIGHT 2004 ACS on STN 69:77841 Effect of substituents on the reactivity of organocyclosiloxanes in anionic polymerization. Andrianov, K. A.; Yakushkina, S. E.; Terent'eva, N. N. (Inst. Elementoorg. Soedin., Moscow, USSR). Vysokomolekulyarnye Soedineniya, Seriya A, 10(8), 1721-6 (Russian) 1968. CODEN: VYSAAF. ISSN: 0507-5475.

IT **25085-97-6P**

(preparation of, kinetics of)

RN 25085-97-6 ZCA

CN Cyclotetrasiloxane, ethenylheptamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4 UDL 5//59 instend

L19 ANSWER 53 OF 59 ZCA COPYRIGHT 2004 ACS on STN
69:36509 Cohydrolysis of γ-trifluoropropenylmethyldichlorosilane
 with dimethyldichlorosilane and polymerization of the reaction
 products. Andrianov, K. A.; Izmailov, B. A.; Kadina, M. A.;
 Nikol'skii, N. S. (Inst. Elementoorg. Soedin., Moscow, USSR).
 Khimiya Geterotsiklicheskikh Soedinenii (1), 37-9 (Russian) 1968.
 CODEN: KGSSAQ. ISSN: 0132-6244.

IT **29153-55-7P 29153-56-8P** (preparation of)

RN 29153-55-7 ZCA

CN Cyclotrisiloxane, 2,2,4,4,6-pentamethyl-6-(3,3,3-trifluoropropenyl)-, polymers (8CI) (CA INDEX NAME)

CM 1

CRN 17913-05-2

CMF C8 H17 F3 O3/Si3

RN 29153-56-8 ZCA

CN Cyclopentasiloxane, 2,2,4,4,6,6,8,8,10-nonamethyl-10-(3,3,3-trifluoropropenyl)-, polymers (8CI) (CA INDEX NAME)

CRN 17913-06-3 CMF C12 H29 F3 O5 Si5

L19 ANSWER 54 OF 59 ZCA COPYRIGHT 2004 ACS on STN

69:28299 Organopolysiloxanes substituted with trialkylsilylphenyl substituents. Wu, Tse C. U.S. US 3385821 19680528, 9 pp. (English). CODEN: USXXAM. APPLICATION: US 1966-595632 19661121.

IT 29057-67-8P 29057-68-9P 29057-69-0P 29496-38-6P 29496-39-7P

(manufacture and crosslinking of)

RN 29057-67-8 ZCA

CN Cyclotrisiloxane, 2,2-diphenyl-4,4,6,6-tetrakis[m-(trimethylsilyl)phenyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 17612-00-9 CMF C48 H62 O3 Si7

CRN 1457-02-9 CMF C27 H26 O3 Si3

RN 29057-68-9 ZCA

CN Cyclotrisiloxane, 2,2,4,4-tetraphenyl-6,6-bis[m-(trimethylsilyl)phenyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane and 2,2,4,4-tetraphenyl-6,6-bis[p-(trimethylsilyl)phenyl]cyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 17611-97-1 CMF C42 H46 O3 Si5

CM 2

CRN 17611-96-0 CMF C42 H46 O3 Si5

CRN 1457-02-9 CMF C27 H26 O3 Si3

RN 29057-69-0 ZCA

CN Cyclotrisiloxane, 2,2-diphenyl-4,4,6,6-tetrakis[m-(trimethylsilyl)phenyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane and 2,2,4,4-tetraphenyl-6,6-bis[m-(trimethylsilyl)phenyl]cyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 17612-00-9 CMF C48 H62 O3 Si7

CRN 17611-97-1 CMF C42 H46 O3 Si5

CM 3

CRN 1457-02-9

CMF C27 H26 O3 Si3

RN 29496-38-6 ZCA

CN Cyclotrisiloxane, 2,2,4,4-tetraphenyl-6,6-bis[p-(trimethylsilyl)phenyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 17611-96-0 CMF C42 H46 O3 Si5

CM 2

CRN 1457-02-9 CMF C27 H26 O3 Si3

RN 29496-39-7 ZCA

CN Cyclotrisiloxane, 2,2,4,4-tetraphenyl-6,6-bis[m-(trimethylsilyl)phenyl]-, polymer with 2-methyl-4,4,6,6-tetraphenyl-2-vinylcyclotrisiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 17611-97-1 CMF C42 H46 O3 Si5

CM 2

CRN 1457-02-9

CMF C27 H26 O3 Si3

ANSWER 55 OF 59 ZCA COPYRIGHT 2004 ACS on STN

67:100237 Vinylheptaphenylcyclotetrasiloxane. Sporck, Christian R. (General Electric Co.). U.S. US 3340288 19670905, 3 pp. (English).

CODEN: USXXAM. APPLICATION: US 19611218.

IT30939-09-4P 30939-14-1P

(preparation of)

30939-09-4 ZCA RN

Cyclotrisiloxane, pentaphenylvinyl-, polymer (8CI) (CA INDEX NAME) CN

CM 1

CRN 15208-34-1

CMF C32 H28 O3 Si3

structure

i.e., mear

Polyner

RN 30939-14-1 ZCA

CN Cyclotrisiloxane, hexaphenyl-, polymer with 2,2,4,4,6-pentaphenyl-6vinylcyclotrisiloxane (8CI) (CA INDEX NAME)

CM1

Ph

15208-34-1 CRN

Ρh

C32 H28 O3 Si3 CMF

CRN 512-63-0 CMF C36 H30 O3 Si3

L19 ANSWER 56 OF 59 ZCA COPYRIGHT 2004 ACS on STN 67:73940 1,3,5,5,7,7-Hexamethyl-1-vinylcyclotetrasiloxane and its polymerization. Andrianov, K. A.; Sidorov, V. I.; Zaitseva, M. G.; Khananashvili, L. M. (M. V. Lomonosov Mosk. Inst. Tonkoi Khim. Tekhnol., Moscow, USSR). Khimiya Geterotsiklicheskikh Soedinenii (1), 32-4 (Russian) 1967. CODEN: KGSSAQ. ISSN: 0132-6244.

IT 30973-18-3P

(preparation of)

RN 30973-18-3 ZCA

CN Cyclotetrasiloxane, 2,2,4,4,6,8-hexamethyl-6-vinyl-, polymers (8CI) (CA INDEX NAME)

CM 1

CRN 17465-23-5 CMF C8 H22 O4 Si4

Page 96

L19 ANSWER 57 OF 59 ZCA COPYRIGHT 2004 ACS on STN

66:65908 Anionic copolymerization of some cyclic polysiloxanes.

Jelinek, Milan; Laita, Zdenek; Kucera, Miloslav (Forschungsinst.

Makromol. Chem., Brno, Czech.). Journal of Polymer Science, Polymer
Symposia, 16, 431-40 (German) 1966. CODEN: JPYCAQ. ISSN:
0360-8905.

IT 31425-42-0P 31533-92-3P

(preparation of)

RN 31425-42-0 ZCA

CN Cyclohexasiloxane, dodecamethyl-, polymer with heptamethylvinylcyclotetrasiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 540-97-6 CMF C12 H36 O6 Si6

RN 31533-92-3 ZCA

CN Cycloheptasiloxane, tetradecamethyl-, polymer with heptamethylvinylcyclotetrasiloxane (8CI) (CA INDEX NAME)

CM 1

CRN 3763-39-1 CMF C9 H24 O4 Si4

CM 2

CRN 107-50-6

CMF C14 H42 O7 Si7

L19 ANSWER 58 OF 59 ZCA COPYRIGHT 2004 ACS on STN 61:77052 Original Reference No. 61:13452e-e Cyclic

poly(diorganosiloxanes). Sporck, Christian R) (General Electric Co.). BE 635646 19631118, 19pp. (Unavailable). PRIORITY: US 19611218.

TI30939-09-4, Cyclotrisiloxane, pentaphenylvinyl-, homopolymer 620169-40-6, Cyclotetrasiloxane, heptaphenylvinyl-, homopolymer (preparation of)

30939-09-4 ZCA RN

CN Cyclotrisiloxane, pentaphenylvinyl-, polymer (8CI) (CA INDEX NAME)

CM 1

CRN 15208-34-1 CMF C32 H28 O3 Si3

RN 620169-40-6 ZCA

CN Cyclotetrasiloxane, heptaphenylvinyl-, homopolymer (7CI) (CA INDEX NAME)

CM 1

CRN 15208-31-8 CMF C44 H38 O4 Si4

L19 ANSWER 59 OF 59 ZCA COPYRIGHT 2004 ACS on STN

61:77051 Original Reference No. 61:13452a-c
Poly(vinylphenylcyclopolysiloxanes). Sporck, Christian R. (General Electric Co.). BE 635643 19631118, 16 pp. (Unavailable). PRIORITY: US 19611218.

RN 30939-09-4 ZCA

M 30939-09-4 ZCA

CN Cyclotrisiloxane, pentaphenylvinyl-, polymer (8CI) (CX INDEX NAME)

CM 1

CRN 15208-34-1 CMF C32 H28 O3 Si3

RN 620169-40-6 ZCA

CN Cyclotetrasiloxane, heptaphenylvinyl-, homopolymer (7CI) (CA INDEX NAME)

CM 1

CRN 15208-31-8 CMF C44 H38 O4 Si4